
Find By Content Reference

(Not Recommended)

[Carbon > Data Management](#)



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Contents

Find By Content Reference (Not Recommended) 5

Overview	5
Functions by Task	5
Working With Indexes	5
Setting Up a Search Session Object	6
Executing a Search	6
Getting Information About Search Session Hits	6
Deallocating Hit Lists and Search Sessions	7
Summarizing Text	7
Working with Universal Procedure Pointers	7
Deprecated Functions	8
Callbacks	9
FBCCallbackProcPtr	9
FBCHitTestProcPtr	10
Data Types	10
FBCCallbackUPP	10
FBCHitTestUPP	11
FBCSearchSession	11
FBCSummaryRef	11
FBCWordItem	12
FBCWordList	12
Constants	12
Language Constants	12
Phase Values	13
Deprecated Language Constants	15
Result Codes	16

Appendix A **Deprecated Find By Content Reference (Not Recommended) Functions** 19

Deprecated in Mac OS X v10.4	19
DisposeFBCCallbackUPP	19
DisposeFBCHitTestUPP	19
FBCAddAllVolumesToSession	20
FBCAddVolumeToSession	21
FBCBlindExampleSearch	21
FBCBlindExampleSearchWithCallback	22
FBCCloneSearchSession	23
FBCCreateSearchSession	24
FBCDeleteIndexFileForFolder	25
FBCDestroySearchSession	25
FBCDestroyWordList	26

FBCDisposeSummary 27
FBCDoCFStringSearch 27
FBCDoExampleSearch 28
FBCDoQuerySearch 30
FBCFindIndexFileFolderForFolder 30
FBCGetHitCount 31
FBCGetHitDocument 32
FBCGetHitDocumentRef 33
FBCGetHitScore 33
FBCGetMatchedWords 34
FBCGetSessionVolumeCount 35
FBCGetSessionVolumes 35
FBCGetSummaryOfCFString 36
FBCGetSummarySentenceCount 36
FBCGetSummarySentences 37
FBCGetTopicWords 38
FBCIndexItems 39
FBCIndexItemsInLanguages 39
FBCReleaseSessionHits 40
FBCRemoveVolumeFromSession 41
FBCSetCallback 41
FBCSetHeapReservation 42
FBCSetSessionCallback 42
FBCSetSessionHitTest 43
FBCSetSessionVolumes 44
FBCSummarize 44
FBCSummarizeCFString 45
FBCVolumeIndexPhysicalSize 46
FBCVolumeIndexTimeStamp 46
FBCVolumelsIndexed 47
FBCVolumelsRemote 47
InvokeFBCCallbackUPP 48
InvokeFBCHitTestUPP 49
NewFBCCallbackUPP 49
NewFBCHitTestUPP 50

Document Revision History 51

Index 53

Find By Content Reference (Not Recommended)

Framework: ApplicationServices/ApplicationServices.h
Declared in FindByContent.h

Overview

Important: The Find by Content API is deprecated as of Mac OS X v10.4. A much more complete solution for finding and displaying information is provided by the Search Kit. See *Search Kit Programming Guide* for guidelines on using the Search Kit.

Whereas the Find by Content API searches specified volumes or folders for words typed in by a user, Search Kit uses a much faster fully indexed search to return relevant content of all sorts. Because the Search Kit takes a different approach to searching for and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Previous to Mac OS X version 10.2, the main client for Find by Content was Sherlock; in versions 10.2 and 10.3 it was the Finder. In version 10.4 and later, Search Kit is used instead by the Finder, Mail, and Spotlight.

Carbon supports Find By Content, but note that it is not contained within the Carbon framework.

Functions by Task

Working With Indexes

[FBCDeleteIndexFileForFolder](#) (page 25) **Deprecated in Mac OS X v10.4**

Deletes the index file associated with a folder. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCIndexItemsInLanguages](#) (page 39) **Deprecated in Mac OS X v10.4**

Indexes one or more directories. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Setting Up a Search Session Object

[FBCreateSearchSession](#) (page 24) **Deprecated in Mac OS X v10.4**

Creates a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBSetSessionCallback](#) (page 42) **Deprecated in Mac OS X v10.4**

Sets a callback function that allows your application to cancel a search operation. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBSetSessionHitTest](#) (page 43) **Deprecated in Mac OS X v10.4**

Sets a callback function that allows your application to perform search-hit testing. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Executing a Search

[FBBindExampleSearchWithCallback](#) (page 22) **Deprecated in Mac OS X v10.4**

Performs a similarity search that uses example files instead of a query string, and installs callbacks for progress reporting and search hit testing. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBDoCStringSearch](#) (page 27) **Deprecated in Mac OS X v10.4**

Initiates a search using a `CFString` as the query string. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBDoExampleSearch](#) (page 28) **Deprecated in Mac OS X v10.4**

Performs a similarity search that uses example files instead of a query string. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBDoQuerySearch](#) (page 30) **Deprecated in Mac OS X v10.4**

Initiates a search using a C string as the query string. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Getting Information About Search Session Hits

[FBGetHitCount](#) (page 31) **Deprecated in Mac OS X v10.4**

Obtains the number of hits returned for a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBGetHitDocument](#) (page 32) **Deprecated in Mac OS X v10.4**

Retrieves the `FSSpec` associated with a specific hit and search. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBGetHitDocumentRef](#) (page 33) **Deprecated in Mac OS X v10.4**

Retrieves the `FSRef` associated with a specific hit and search. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBGetHitScore](#) (page 33) **Deprecated in Mac OS X v10.4**

Obtains the hit score associated with a specific hit. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Deallocating Hit Lists and Search Sessions

[FBCTerminateSearchSession](#) (page 25) **Deprecated in Mac OS X v10.4**

Disposes of a search session object. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSearchSessionHits](#) (page 40) **Deprecated in Mac OS X v10.4**

Releases the hits associated with a search session object. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

Summarizing Text

[FBCTerminateSummary](#) (page 27) **Deprecated in Mac OS X v10.4**

Disposes of a summary reference object. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSummaryOfCFString](#) (page 36) **Deprecated in Mac OS X v10.4**

Creates a summary reference object for CFString. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSummarySentenceCount](#) (page 36) **Deprecated in Mac OS X v10.4**

Obtains the number of sentences in a summary reference object. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSummarySentences](#) (page 37) **Deprecated in Mac OS X v10.4**

Obtains a summary that contains a specified number of sentences. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSummarize](#) (page 44) **Deprecated in Mac OS X v10.4**

Summarizes text that is specified as an ASCII buffer. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCTerminateSummarizeCFString](#) (page 45) **Deprecated in Mac OS X v10.4**

Summarizes text that is specified as a CFString. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

Working with Universal Procedure Pointers

[DisposeFBCTerminateCallbackUPP](#) (page 19) **Deprecated in Mac OS X v10.4**

Disposes of universal procedure pointer (UPP) to a search cancellation callback. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[DisposeFBCTerminateHitTestUPP](#) (page 19) **Deprecated in Mac OS X v10.4**

Disposes of universal procedure pointer (UPP) to a search-hit testing callback. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[InvokeFBCTerminateCallbackUPP](#) (page 48) **Deprecated in Mac OS X v10.4**

Invokes a universal procedure pointer (UPP) to a search cancellation callback. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[InvokeFBCTerminateHitTestUPP](#) (page 49) **Deprecated in Mac OS X v10.4**

Invokes a universal procedure pointer (UPP) to a search-hit testing callback. (**Deprecated**. Use Search Kit instead; see *Search Kit Programming Guide*.)

[NewFBCCallbackUPP](#) (page 49) **Deprecated in Mac OS X v10.4**

Creates a new universal procedure pointer (UPP) to a search cancellation callback. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[NewFBCHitTestUPP](#) (page 50) **Deprecated in Mac OS X v10.4**

Creates a new universal procedure pointer (UPP) to a search-hit testing callback. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Functions

[FBCAddAllVolumesToSession](#) (page 20) **Deprecated in Mac OS X v10.4**

Adds all volumes to a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCAddVolumeToSession](#) (page 21) **Deprecated in Mac OS X v10.4**

Adds one volume to a session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCBlindExampleSearch](#) (page 21) **Deprecated in Mac OS X v10.4**

Executes a similarity search. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCCloneSearchSession](#) (page 23) **Deprecated in Mac OS X v10.4**

Clones a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCDestroyWordList](#) (page 26) **Deprecated in Mac OS X v10.4**

Destroys a word list. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCFindIndexFileFolderForFolder](#) (page 30) **Deprecated in Mac OS X v10.4**

Gets the location of the index file associated with a directory. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCGetMatchedWords](#) (page 34) **Deprecated in Mac OS X v10.4**

Gets a list of matched words for a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCGetSessionVolumeCount](#) (page 35) **Deprecated in Mac OS X v10.4**

Gets a volume count for a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCGetSessionVolumes](#) (page 35) **Deprecated in Mac OS X v10.4**

Gets the volumes associated with a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCGetTopicWords](#) (page 38) **Deprecated in Mac OS X v10.4**

Gets a list of topic words for a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCIndexItems](#) (page 39) **Deprecated in Mac OS X v10.4**

Indexes one or more files or folders. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCRemoveVolumeFromSession](#) (page 41) **Deprecated in Mac OS X v10.4**

Removes a volume from a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCSetCallback](#) (page 41) **Deprecated in Mac OS X v10.4**

Sets a callback. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBCSetHeapReservation](#) (page 42) **Deprecated in Mac OS X v10.4**

Sets the amount of heap space to reserve for application use when Find by Content allocates memory. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBSetSessionVolumes](#) (page 44) **Deprecated in Mac OS X v10.4**

Sets the volumes for a search session. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBVolumeIndexPhysicalSize](#) (page 46) **Deprecated in Mac OS X v10.4**

Obtains the physical size of an index. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBVolumeIndexTimeStamp](#) (page 46) **Deprecated in Mac OS X v10.4**

Obtains the date and time when an index was last updated. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBVolumeIsIndexed](#) (page 47) **Deprecated in Mac OS X v10.4**

Determines whether a volume is indexed. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

[FBVolumeIsRemote](#) (page 47) **Deprecated in Mac OS X v10.4**

Determines whether a volume is remote. (**Deprecated.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Callbacks

FBCCallbackProcPtr

Defines a pointer to a function that can cancel a search operation.

```
typedef Boolean (*FBCCallbackProcPtr)
(
    UInt16 phase,
    float percentDone,
    void * data
);
```

If you name your function `MyFBCCallbackProc`, you would declare it like this:

```
Boolean MyFBCCallbackProcPtr (
    UInt16 phase,
    float percentDone,
    void * data
);
```

Parameters

phase

percentDone

data

A pointer to data needed by your callback. This is the same data you provided to the function [FBSetSessionCallback](#) (page 42) in the `data` parameter.

Return Value

Return `true` if you want to cancel the current operation. Otherwise return `false`.

Discussion

Find by Content invoke your callback periodically (approximately every 5 ticks) while searching. Your callback can cancel a search operation by returning a value of `true`.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCHitTestProcPtr

Defines a pointer to a function that performs search-hit testing.

```
typedef Boolean (*FBCHitTestProcPtr)
(
    const FSRef * theFile,
    void * data
);
```

If you name your function `MyFBCHitTestProc`, you would declare it like this:

```
Boolean MyFBCHitTestProcPtr (
    const FSRef * theFile,
    void * data
);
```

Parameters

theFile

A pointer to an `FSRef` that specifies the location of file that matches the search query.

data

A pointer to data needed by your callback. This is the same data you provided to the function [FBSetSessionHitTest](#) (page 43) in the `data` parameter.

Return Value

Return `true` if your callback wants to accept the file as a valid match or `false` to reject it.

Discussion

You can use this callback to impose additional matching criteria in addition to that provided to Find by Content. For example, you could accept a hit only if the file has a creation date later than a specified date.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Declared In

FindByContent.h

Data Types

FBCCallbackUPP

Defines a universal procedure pointer to a search cancellation callback.

```
typedef FBCCallbackProcPtr FBCCallbackUPP;
```

Discussion

For more information, see the description of the [FBCCallbackProcPtr](#) (page 9) callback function.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCHitTestUPP

Defines a universal procedure pointer to a search-hit testing callback.

```
typedef FBCHitTestProcPtr FBCHitTestUPP;
```

Discussion

For more information, see the description of the [FBCHitTestProcPtr](#) (page 10) callback function.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCSearchSession

Defines pointer to an opaque data type (referred to as a search session object) that contains a collection of state information used in a search session.

```
typedef struct OpaqueFBCSearchSession * FBCSearchSession;
```

Discussion

You call the function [FBCCreateSearchSession](#) (page 24) to create a new search session object. When no longer need the search session object, you must dispose of it by calling the function [FBCDestroySearchSession](#) (page 25).

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCSummaryRef

A pointer to an opaque data type (referred to as a summary reference object) that contains summary information, from which summary text can be obtained.

```
typedef struct OpaqueFBCSummaryRef * FBCSummaryRef;
```

Discussion

You call the function [FBCGetSummaryOfCFString](#) (page 36) to create a new summary reference object. When no longer need the summary reference object, you must dispose of it by calling the function [FBCDisposeSummary](#) (page 27).

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCWordItem

Defines a data type for an ordinary C string used for searching.

```
typedef char* FBCWordItem;
```

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In

FindByContent.h

FBCWordList

Defines an array of word items.

```
typedef FBCWordItem * FBCWordList;
```

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared In

FindByContent.h

Constants

Language Constants

Define values for language constants.

```

enum {
    kFBCenglishHighWord = 0x80000000,
    kFBCdutchHighWord = 0x40000000,
    kFBCgermanHighWord = 0x20000000,
    kFBCswedishHighWord = 0x10000000,
    kFBCdanishHighWord = 0x08000000,
    kFBCspanishHighWord = 0x04000000,
    kFBCportugueseHighWord = 0x02000000,
    kFBCitalianHighWord = 0x01000000,
    kFBCfrenchHighWord = 0x00800000,
    kFBCromanHighWord = 0x00400000,
    kFBCicelandicHighWord = 0x00200000,
    kFBChebrewHighWord = 0x00100000,
    kFBCarabicHighWord = 0x00080000,
    kFBCcenteuroHighWord = 0x00040000,
    kFBCcroatianHighWord = 0x00020000,
    kFBCturkishHighWord = 0x00010000,
    kFBCromanianHighWord = 0x00008000,
    kFBCgreekHighWord = 0x00004000,
    kFBCcyrillicHighWord = 0x00002000,
    kFBCdevanagariHighWord = 0x00001000,
    kFBCgujuratiHighWord = 0x00000800,
    kFBCgurmukhiHighWord = 0x00000400,
    kFBCjapaneseHighWord = 0x00000200,
    kFBCkoreanHighWord = 0x00000100,
    kFBCdefaultLanguagesHighWord = 0xFF800000
};

```

Discussion

Language constants are passed as parameters to the function [FBCIndexItemsInLanguages](#) (page 39). The purpose of these constants is to tell Find by Content what languages the user expects the files to contain. From this, Find by Content infer the character encodings to look for, and for some languages, what lists of words to exclude from the index and what rules to use in reducing words to their stems.

These constants are bits in a 64-bit array that consists of two `UInt32` words. In the current implementation the low word is always 0, so values for the high word are given. If both `UInt32` words are 0, the default value of `kDefaultLanguagesHighWord` is used.

Phase Values

Define values that are passed to a progress callback function to indicate what phase of an operation Find By Content is currently performing; most of these values are not used in Mac OS X.

```
enum {
    kFBCphIndexing = 0,
    kFBCphFlushing = 1,
    kFBCphMerging = 2,
    kFBCphMakingIndexAccessor = 3,
    kFBCphCompacting = 4,
    kFBCphIndexWaiting = 5,
    kFBCphSearching = 6,
    kFBCphMakingAccessAccessor = 7,
    kFBCphAccessWaiting = 8,
    kFBCphSummarizing = 9,
    kFBCphIdle = 10,
    kFBCphCanceling = 11
};
```

Constants

`kFBCphIndexing`

Indicates an indexing phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphFlushing`

Indicates an indexing phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphMerging`

Indicates an indexing phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphMakingIndexAccessor`

Indicates an indexing phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphCompacting`

Indicates an indexing phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphIndexWaiting`

Indicates an access phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphSearching`

Indicates searching phase. In Mac OS X, this is the only phase value returned to your `FBCCallbackProcPtr` callback.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphMakingAccessAccessor`

Indicates an access phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphAccessWaiting`

Indicates an access phase. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphSummarizing`

Indicates summarization. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphIdle`

Indicates indexing or accessing. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

`kFBCphCanceling`

Indicates cancellation. This is no longer used in Mac OS X.

Available in Mac OS X v10.0 through Mac OS X v10.4.

Declared in `FindByContent.h`.

Discussion

The values are meaningless in Mac OS X.

Deprecated Language Constants

Redefine old language constants as new ones; you should use the new value.

```

enum {
    englishHighWord = kFBCenglishHighWord,
    dutchHighWord = kFBCdutchHighWord,
    germanHighWord = kFBCgermanHighWord,
    swedishHighWord = kFBCswedishHighWord,
    danishHighWord = kFBCdanishHighWord,
    spanishHighWord = kFBCspanishHighWord,
    portugueseHighWord = kFBCportugueseHighWord,
    italianHighWord = kFBCitalianHighWord,
    frenchHighWord = kFBCfrenchHighWord,
    romanHighWord = kFBCromanHighWord,
    icelandicHighWord = kFBCicelandicHighWord,
    hebrewHighWord = kFBChebrewHighWord,
    arabicHighWord = kFBCarabicHighWord,
    centeuroHighWord = kFBCcenteuroHighWord,
    croatianHighWord = kFBCcroatianHighWord,
    turkishHighWord = kFBCturkishHighWord,
    romanianHighWord = kFBCromanianHighWord,
    greekHighWord = kFBCgreekHighWord,
    cyrillicHighWord = kFBCcyrillicHighWord,
    devanagariHighWord = kFBCdevanagariHighWord,
    gujuratiHighWord = kFBCgujuratiHighWord,
    gurmukhiHighWord = kFBCgurmukhiHighWord,
    japaneseHighWord = kFBCjapaneseHighWord,
    koreanHighWord = kFBCkoreanHighWord,
    kDefaultLanguagesHighWord = kFBCdefaultLanguagesHighWord
};

```

Result Codes

The result codes returned by Find By Content are listed below.

Result Code	Value	Description
errIAnoErr	0	Available in Mac OS X v10.0 and later.
kFBCvTwinExceptionErr	-30500	No telling what it was Available in Mac OS X v10.0 and later.
kFBCnoIndexesFound	-30501	Indexes not found Available in Mac OS X v10.0 and later.
kFBCallocFailed	-30502	Possibly due to low memory Available in Mac OS X v10.0 and later.
kFBCbadParam	-30503	Bad parameter passed to a function Available in Mac OS X v10.0 and later.
kFBCfileNotIndexed	-30504	File not indexed Available in Mac OS X v10.0 and later.

Result Code	Value	Description
kFBCbadIndexFile	-30505	Bad FSSpec, or bad data in file Available in Mac OS X v10.0 and later.
kFBCcompactionFailed	-30506	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCvalidationFailed	-30507	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCindexingFailed	-30508	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCcommitFailed	-30509	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCdeletionFailed	-30510	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCmoveFailed	-30511	V-Twin exception caught Available in Mac OS X v10.0 and later.
kFBCtokenizationFailed	-30512	Couldn't read from document or query Available in Mac OS X v10.0 and later.
kFBCmergingFailed	-30513	Couldn't merge index files Available in Mac OS X v10.0 and later.
kFBCindexCreationFailed	-30514	Couldn't create index Available in Mac OS X v10.0 and later.
kFBCaccessorStoreFailed	-30515	Available in Mac OS X v10.0 and later.
kFBCaddDocFailed	-30516	Available in Mac OS X v10.0 and later.
kFBCflushFailed	-30517	Available in Mac OS X v10.0 and later.
kFBCindexNotFound	-30518	Index not found Available in Mac OS X v10.0 and later.
kFBCnoSearchSession	-30519	Search session object not created Available in Mac OS X v10.0 and later.
kFBCindexingCanceled	-30520	Indexing cancelled Available in Mac OS X v10.0 and later.
kFBCaccessCanceled	-30521	Available in Mac OS X v10.0 and later.

Result Code	Value	Description
kFBCindexFileDestroyed	-30522	Index file destroyed Available in Mac OS X v10.0 and later.
kFBCindexNotAvailable	-30523	Index not available Available in Mac OS X v10.0 and later.
kFBCsearchFailed	-30524	Search failed Available in Mac OS X v10.0 and later.
kFBCsomeFilesNotIndexed	-30525	Some files are not indexed Available in Mac OS X v10.0 and later.
kFBCillegalSessionChange	-30526	Tried to add/remove volumes to a session. Available in Mac OS X v10.0 and later.
kFBCanalysisNotAvailable	-30527	Available in Mac OS X v10.0 and later.
kFBCbadIndexFileVersion	-30528	Available in Mac OS X v10.0 and later.
kFBCsummarizationCanceled	-30529	Summarization operation cancelled Available in Mac OS X v10.0 and later.
kFBCindexDiskIOFailed	-30530	Available in Mac OS X v10.0 and later.
kFBCbadSearchSession	-30531	Available in Mac OS X v10.0 and later.
kFBCnoSuchHit	-30532	Hit doesn't exist Available in Mac OS X v10.0 and later.
kFBCsummarizationFailed	-30533	Summarization operation failed Available in Mac OS X v10.2 through Mac OS X v10.4.
kFBCnotAllFoldersSearchable	-30533	Not all folders are searchable Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated Find By Content Reference (Not Recommended) Functions

A function identified as deprecated has been superseded and may become unsupported in the future.

Deprecated in Mac OS X v10.4

DisposeFBCCallbackUPP

Disposes of universal procedure pointer (UPP) to a search cancellation callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
void DisposeFBCCallbackUPP (
    FBCCallbackUPP userUPP
);
```

Parameters

userUPP

The universal procedure pointer.

Discussion

See the callback [FBCCallbackProcPtr](#) (page 9) for more information.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

DisposeFBCHitTestUPP

Disposes of universal procedure pointer (UPP) to a search-hit testing callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

```
void DisposeFBHitTestUPP (
    FBHitTestUPP userUPP
);
```

Parameters

userUPP

The universal procedure pointer.

Discussion

See the callback [FBHitTestProcPtr](#) (page 10) for more information.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCAddAllVolumesToSession

Adds all volumes to a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCAddAllVolumesToSession (
    FBCSearchSession theSession,
    Boolean includeRemote
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

Deprecated Find By Content Reference (Not Recommended) Functions

FBCAddVolumeToSession

Adds one volume to a session. (**Deprecated in Mac OS X v10.4.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCAddVolumeToSession (
    FBCSearchSession theSession,
    SInt16 vRefNum
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCBlindExampleSearch

Executes a similarity search. (**Deprecated in Mac OS X v10.4.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCBlindExampleSearch (
    const FSSpec examples[],
    UInt32 numExamples,
    const FSSpec targetDirs[],
    UInt32 numTargets,
    UInt32 maxHits,
    UInt32 maxHitWords,
    Boolean allIndexes,
    Boolean includeRemote,
    FBCSearchSession * theSession
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Deprecated Find By Content Reference (Not Recommended) Functions

Carbon Porting Notes

Use the function `FBCBlindExampleSearchWithCallback` (page 22) instead.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCBlindExampleSearchWithCallback

Performs a similarity search that uses example files instead of a query string, and installs callbacks for progress reporting and search hit testing. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCBlindExampleSearchWithCallback (
    const FSSpec examples[],
    UInt32 numExamples,
    const FSSpec targetDirs[],
    UInt32 numTargets,
    UInt32 maxHits,
    UInt32 maxHitWords,
    Boolean allIndexes,
    Boolean includeRemote,
    FBCSearchSession * theSession,
    FBCCallbackUPP callback,
    void * callbackData,
    FBCHitTestUPP userHitTest,
    void * userHitTestData
);
```

Parameters

examples

An array of `FSSpec` data types that specify the location of one or more examples files. The hits are the files that most resemble the examples in terms of weighted word frequencies.

numExamples

The number of examples in the `examples` array.

targetDirs

An array of `FSSpec` data types that specify the directories you want to search. Any directories that are not indexed are skipped.

numTargets

A value that specifies number of directories specified by the `targetDirs` parameter.

maxHits

A value that specifies the maximum number of hits you want. If you pass `N` for this parameter, you get the `N` most relevant hits found in an exhaustive search of the indexes (or all the hits if there are less than `N`).

maxHitWords

This parameter is ignored in Mac OS X version 10.2 and later.

allIndexes

This parameter is ignored in Mac OS X version 10.2 and later.

Deprecated Find By Content Reference (Not Recommended) Functions

includeRemote

This parameter is ignored in Mac OS X version 10.2 and later.

theSession

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

callback

A universal procedure pointer to your callback for cancelling a search. See `FBCCallbackProcPtr` (page 9) for more information.

callbackData

A pointer to data needed by the callback specified by the `callback` parameter. Pass `NULL` if your callback does not require any data.

userHitTest

A universal procedure pointer to your callback for testing search hits. See `FBCHitTestProcPtr` (page 10) for more information.

callbackData

A pointer to data needed by the callback specified by the `userHitTest` parameter. Pass `NULL` if your callback does not require any data.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Discussion

You should use the function `FBCloneSearchSession` for cases where your example files have not been indexed. If the files have been indexed, it is simpler and more efficient for you to use the function `FBDoExampleSearch`.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCloneSearchSession

Clones a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

Deprecated Find By Content Reference (Not Recommended) Functions

```
OSErr FBCCloneSearchSession (
    FBCSearchSession original,
    FBCSearchSession * clone
);
```

Parameters*original*

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

clone

On return, points to a newly-created search session object that is a copy of the one specified by the *original* parameter.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCCreateSearchSession

Creates a search session. (**Deprecated in Mac OS X v10.4.** Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCCreateSearchSession (
    FBCSearchSession * searchSession
);
```

Parameters*searchSession*

On return, points to a newly-created search session object. You provide a search session object as a parameter when you call other other search functions.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Discussion

You must create a search session using the function `FBCCreateSearchSession` before you can use any other search function.

Deprecated Find By Content Reference (Not Recommended) Functions

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCDeleteIndexFileForFolder

Deletes the index file associated with a folder. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCDeleteIndexFileForFolder (  
    const FSRef * folder  
);
```

Parameters

folder

An FSRef that specifies the folder whose index file you want to delete.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCDestroySearchSession

Disposes of a search session object. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

```
OSErr FBCTDestroySearchSession (
    FBCTSearchSession theSession
);
```

Parameters

theSession

The search session object you want to dispose of. You obtain a search session object by calling the function `FBCTCreateSearchSession`.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCTDestroyWordList

Destroys a word list. (**Deprecated in Mac OS X v10.4.** Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCTDestroyWordList (
    FBCTWordList theList,
    UInt32 wordCount
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCDisposeSummary

Disposes of a summary reference object. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSStatus FBCDisposeSummary (
    FBCSummaryRef summary
);
```

Parameters

summary

The summary reference object you want to dispose of. You obtain a summary reference object when you call the function `FBCGetSummaryOfCFString` (page 36).

Return Value

A result code. See “Find By Content Result Codes” (page 16).

Discussion

You must dispose of a summary reference object when you no longer need it.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCDoCFStringSearch

Initiates a search using a `CFString` as the query string. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCDoCFStringSearch (
    FBCSearchSession theSession,
    CFStringRef queryString,
    const FSSpec targetDirs[],
    UInt32 numTargets,
    UInt32 maxHits,
    UInt32 maxHitWords
);
```

Parameters

theSession

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

queryString

The query string specified as a `CFString`.

Deprecated Find By Content Reference (Not Recommended) Functions

targetDirs

An array of `FSSpec` data types that specify the directories you want to search. Any directories that are not indexed are skipped.

numTargets

A value that specifies number of directories specified by the `targetDirs` parameter.

maxHits

A value that specifies the maximum number of hits you want. If you pass `N` for this parameter, you get the `N` most relevant hits found in an exhaustive search of the indexes (or all the hits if there are less than `N`).

maxHitWords

This parameter is ignored in Mac OS X version 10.2 and later.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Discussion

When the function `FBCDoCFStringSearch` returns, you must retrieve hit information by calling the functions [`FBCGetHitCount`](#) (page 31), [`FBCGetHitDocumentRef`](#) (page 33), and [`FBCGetHitScore`](#) (page 33). You call [`FBCGetHitCount`](#) (page 31) to obtain the number of hits found. Then you can iterate through each hit to get the associated `FSRef` and score by calling [`FBCGetHitDocumentRef`](#) (page 33) and [`FBCGetHitScore`](#) (page 33).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCDoExampleSearch

Performs a similarity search that uses example files instead of a query string. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

```
OSErr FBCTDoExampleSearch (
    FBCTSearchSession theSession,
    const UInt32 * exampleHitNums,
    UInt32 numExamples,
    const FSSpec targetDirs[],
    UInt32 numTargets,
    UInt32 maxHits,
    UInt32 maxHitWords
);
```

Parameters*theSession*

A valid search session object. You must provide the search session object you provided to the search function `FBCTDoCFStringSearch`.

exampleHitNums

A pointer to the hits obtained from a previous search using *theSession* search session object.

numExamples

The number of examples pointed to by the *exampleHitNums* parameter.

targetDirs

An array of `FSSpec` data types that specify the directories you want to search. Any directories that are not indexed are skipped.

numTargets

A value that specifies number of directories specified by the *targetDirs* parameter.

maxHits

A value that specifies the maximum number of hits you want. If you pass *N* for this parameter, you get the *N* most relevant hits found in an exhaustive search of the indexes (or all the hits if there are less than *N*).

maxHitWords

This parameter is ignored in Mac OS X version 10.2 and later.

Return Value

A result code. See ["Find By Content Result Codes"](#) (page 16).

Discussion

You should use the function `FBCTDoExampleSearch` for cases where you example files have been indexed. If you example files have not been indexed, use the function `FBCTBlindExampleSearchWithCallback`.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCDoQuerySearch

Initiates a search using a C string as the query string. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```

OSErr FBCDoQuerySearch (
    FBCSearchSession theSession,
    char * queryText,
    const FSSpec targetDirs[],
    UInt32 numTargets,
    UInt32 maxHits,
    UInt32 maxHitWords
);

```

Parameters

theSession

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

queryText

The query string specified as a C string.

numTargets

A value that specifies number of directories specified by the `targetDirs` parameter.

maxHits

A value that specifies the maximum number of hits you want. If you pass N for this parameter, you get the N most relevant hits found in an exhaustive search of the indexes (or all the hits if there are less than N).

maxHitWords

This parameter is ignored in Mac OS X version 10.2 and later.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Discussion

You should use the function `FBCDoCFStringSearch` (page 27) instead of this one.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCFindIndexFileFolderForFolder

Gets the location of the index file associated with a directory. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

Not recommended

```
OSErr FBCFindIndexFileFolderForFolder (
    const FSRef * inFolder,
    FSRef * outFolder
);
```

Parameters*inFolder*

A pointer to an `FSRef` that specifies the location of the folder that contains the index file for a directory.

outFolder

On output, points to the `FSRef` that specifies the directory that contains the index file.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCGetHitCount

Obtains the number of hits returned for a search session. (**Deprecated in Mac OS X v10.4.** Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCGetHitCount (
    FBCSearchSession theSession,
    UInt32 * count
);
```

Parameters*theSession*

A valid search session object. You must provide the search session object you provided to the search function `FBCDoCFStringSearch`.

count

On return, points to the number of hits returned for the search on the object specified by `theSession`.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Discussion

You can iterate through each hit to get the associated `FSRef` and score by calling the functions [FBCGetHitDocumentRef](#) (page 33) and [FBCGetHitScore](#) (page 33).

Deprecated Find By Content Reference (Not Recommended) Functions

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetHitDocument

Retrieves the `FSSpec` associated with a specific hit and search. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCGetHitDocument (
    FBCSearchSession theSession,
    UInt32 hitNumber,
    FSSpec * theDocument
);
```

Parameters

theSession

A valid search session object. You must provide the search session object you provided to the search function `FBCDoCFStringSearch`.

hitNumber

A value that specifies the hit whose document you want to retrieve.

theDocument

A pointer to an `FSSpec` that specifies the location of the document associated with `hitNumber` for the search previously carried out on `theSession`.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetHitDocumentRef

Retrieves the `FSRef` associated with a specific hit and search. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCGetHitDocumentRef (
    FBCSearchSession theSession,
    UInt32 hitNumber,
    FSRef * theDocument
);
```

Parameters

theSession

A valid search session object. You must provide the search session object you provided to the search function `FBCDoCFStringSearch`.

hitNumber

A value that specifies the hit whose document you want to retrieve.

theDocument

A pointer to an `FSRef` that specifies the location of the document associated with `hitNumber` for the search previously carried out on `theSession`.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCGetHitScore

Obtains the hit score associated with a specific hit. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCGetHitScore (
    FBCSearchSession theSession,
    UInt32 hitNumber,
    float * score
);
```

Parameters

theSession

A valid search session object. You must provide the search session object you provided to the search function `FBCDoCFStringSearch`.

Deprecated Find By Content Reference (Not Recommended) Functions

hitNumber

A value that specifies the hit whose document you want to retrieve.

float

A pointer to a value that specifies the hit score. Scores are normalized to range from 1.0 (most significant) to 0 (least significant).

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetMatchedWords

Gets a list of matched words for a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCGetMatchedWords (
    FBCSearchSession theSession,
    UInt32 hitNumber,
    UInt32 * wordCount,
    FBCWordList * list
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetSessionVolumeCount

Gets a volume count for a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCGetSessionVolumeCount (
    FBCSearchSession theSession,
    UInt16 * count
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetSessionVolumes

Gets the volumes associated with a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCGetSessionVolumes (
    FBCSearchSession theSession,
    SInt16 vRefNums[],
    UInt16 * numVolumes
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Deprecated Find By Content Reference (Not Recommended) Functions

Declared In

FindByContent.h

FBCGetSummaryOfCFString

Creates a summary reference object for `CFString`. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSStatus FBCGetSummaryOfCFString (
    CFStringRef inString,
    FBCSummaryRef * summary
);
```

Parameters*inString*

A `CFStringRef` representing the text you want summarized. Summarization works with all languages that use white space to separate words, plus Japanese. It works best with text that is not broken into lines using CR and/or LF characters.

summary

On output, a newly-created summary reference object that contains summary information for the string specified by the `inString` parameter. A summary reference object is an opaque object. To access the information in this object, you can use the functions `FBCGetSummarySentenceCount` (page 36) and `FBCGetSummarySentences` (page 37). You should call the function `FBCDisposeSummary` (page 27) when you no longer need the summary reference object.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Discussion

A summary reference object is an opaque object that can very quickly give you a summary containing any desired number of sentences from 1 up to the total number of sentences found in the original text.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetSummarySentenceCount

Obtains the number of sentences in a summary reference object. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

```
OSStatus FBCGetSummarySentenceCount (
    FBCSummaryRef summary,
    UInt32 * numSentences
);
```

Parameters*summary*

A valid summary reference object. You obtain a summary reference object when you call the function [FBCGetSummaryOfCFString](#) (page 36).

numSentences

On output, a pointer to the number of sentences contained in the summary.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCGetSummarySentences

Obtains a summary that contains a specified number of sentences. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSStatus FBCGetSummarySentences (
    FBCSummaryRef summary,
    CFStringRef * outString,
    UInt32 * numSentences,
    Boolean paragraphs
);
```

Parameters*summary*

A valid summary reference object. You obtain a summary reference object when you call the function [FBCGetSummaryOfCFString](#) (page 36).

outString

On output, a pointer to a `CFStringRef` that contains the summary. You are responsible for releasing the `CFStringRef` when you no longer need it.

numSentences

On input, the number of sentences you want in the summary. On output, the number of sentences actually written into the summary. If you pass 0, Find by Content uses a logarithmic function to determine the number of sentences.

Deprecated Find By Content Reference (Not Recommended) Functions

paragraphs

A Boolean value that specifies the content of the summary. If you pass `true` the summary is made up of whole paragraphs that contain the relevant sentences. If it is `false`, only the relevant sentences are included.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCGetTopicWords

Gets a list of topic words for a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCGetTopicWords (
    FBCSearchSession theSession,
    UInt32 hitNumber,
    UInt32 * wordCount,
    FBCWordList * list
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCIndexItems

Indexes one or more files or folders. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCIndexItems (
    FSSpecArrayPtr theItems,
    UInt32 itemCount
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCIndexItemsInLanguages

Indexes one or more directories. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCIndexItemsInLanguages (
    FSSpecArrayPtr theItems,
    UInt32 itemCount,
    UInt32 languageHighBits,
    UInt32 languageLowBits
);
```

Parameters

theItems

An `FSSpecArrayPtr` that specifies the directory or directories to be indexed; subdirectories are included automatically.

itemCount

The number of items pointed to by `theItems` parameter.

languageHighBits

A value that specifies the languages to be used. The high bits are obtained by summing the desired constants defined in [Language Constants](#) (page 12).

languageLowBits

A value that specifies the languages to be used. The low bits should always be 0.

Return Value

A result code. See ["Find By Content Result Codes"](#) (page 16).

Deprecated Find By Content Reference (Not Recommended) Functions

Discussion

Your application must first call the function `FBCIndexItemsInLanguages` to make an index of the files to be searched. Find by Content looks at the contents of each file (including the file's name) to make the index. For PDF and HTML files, the textual content is separated out from formatting information; for all other file types, the entire data of the file is used. The index is an invisible file.

Some file types do not contain words that are useful for searching, such as graphics files and application software. Find by Content has lists of Mac OS file types and filename extensions for such files, and any file that has one of the listed types or one of the listed extensions is treated specially when it is indexed. That is, the name of the file is indexed, but the contents are not. In addition, folder names are indexed. The lists of types and extensions are text files named `StopTypes` and `StopExts`. You can edit these lists using an editor (such as `BEdit` or `TextEdit`). The files are located in the `/System/Library/Find/` directory.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCReleaseSessionHits

Releases the hits associated with a search session object. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCReleaseSessionHits (
    FBCSearchSession theSession
);
```

Parameters

theSession

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

Return Value

A result code. See [“Find By Content Result Codes”](#) (page 16).

Discussion

The function `FBCReleaseSessionHits` releases the hits associated with a specific search session object, resetting the object so it can be used in another search. You are responsible for releasing a search session object when you no longer need it by calling the function `FBCDestroySearchSession` (page 25).

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Deprecated Find By Content Reference (Not Recommended) Functions

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCRemoveVolumeFromSession

Removes a volume from a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCRemoveVolumeFromSession (
    FBCSearchSession theSession,
    SInt16 vRefNum
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCSetCallback

Sets a callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not Recommended.

```
void FBCSetCallback (
    FBCCallbackUPP fn,
    void * data
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Deprecated Find By Content Reference (Not Recommended) Functions

Carbon Porting Notes

Use the function `FBCSetSessionCallback` (page 42) instead.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCSetHeapReservation

Sets the amount of heap space to reserve for application use when Find by Content allocates memory. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
void FBCSetHeapReservation (
    UInt32 bytes
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCSetSessionCallback

Sets a callback function that allows your application to cancel a search operation. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
void FBCSetSessionCallback (
    FBCSearchSession searchSession,
    FBCCallbackUPP fn,
    void * data
);
```

Parameters

searchSession

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

Deprecated Find By Content Reference (Not Recommended) Functions

fn

A universal procedure pointer to your callback for cancelling a search. See [FBCCallbackProcPtr](#) (page 9) for more information.

data

A pointer to data needed by your callback. Pass `NULL` if your callback does not require any data.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCSetSessionHitTest

Sets a callback function that allows your application to perform search-hit testing. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
void FBCSetSessionHitTest (
    FBCSearchSession theSession,
    FBCHitTestUPP fn,
    void * data
);
```

Parameters*theSession*

A valid search session object. You obtain a search session object by calling the function `FBCCreateSearchSession`.

fn

A universal procedure pointer to your callback for testing search-hits. See [FBCHitTestProcPtr](#) (page 10) for more information.

data

A pointer to data needed by your callback. Pass `NULL` if your callback does not require any data.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCSetSessionVolumes

Sets the volumes for a search session. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCSetSessionVolumes (
    FBCSearchSession theSession,
    const SInt16 vRefNums[],
    UInt16 numVolumes
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCSummarize

Summarizes text that is specified as an ASCII buffer. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSErr FBCSummarize (
    const void * inBuf,
    UInt32 inLength,
    void * outBuf,
    UInt32 * outLength,
    UInt32 * numSentences
);
```

Parameters

inBuf

A pointer to the ASCII text you want summarized.

inLength

The length of the text buffer pointed to by *inBuf*.

outBuf

On output, points to the summarized text.

outLength

On output, points to a value that specifies the length of the summarized text.

Deprecated Find By Content Reference (Not Recommended) Functions

numSentences

On input, points to a value that specifies the number of sentences desired in the summary. On output, points to the number of sentences actually written into the summary. If you pass 0, Find by Content uses a logarithmic function to determine the number of sentences.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Discussion

You should use the function `FBCSummarizeCFString` instead of `FBCSummarize` because the `CFString` version is more reliable and accurate.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

`FindByContent.h`

FBCSummarizeCFString

Summarizes text that is specified as a `CFString`. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
OSStatus FBCSummarizeCFString (
    CFStringRef inString,
    CFStringRef * outString,
    UInt32 * numSentences
);
```

Parameters

inString

A `CFStringRef` representing the text you want summarized. Summarization works with all languages that use white space to separate words, plus Japanese. It works best with text that is not broken into lines using CR and/or LF characters.

outString

On output, points to the summarization. You are responsible for releasing this string.

numSentences

On input, points to a value that specifies the number of sentences you want in the summary. On output, points to the number of sentences actually written into the summary. If you pass 0, Find by Content uses a logarithmic function to determine the number of sentences.

Return Value

A result code. See “[Find By Content Result Codes](#)” (page 16).

Deprecated Find By Content Reference (Not Recommended) Functions

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCVolumeIndexPhysicalSize

Obtains the physical size of an index. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
OSErr FBCVolumeIndexPhysicalSize (
    SInt16 theVRefNum,
    UInt32 * size
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCVolumeIndexTimeStamp

Obtains the date and time when an index was last updated. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

Deprecated Find By Content Reference (Not Recommended) Functions

```
OSErr FBCVolumeIndexTimeStamp (
    SInt16 theVRefNum,
    UInt32 * timeStamp
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCVolumelsIndexed

Determines whether a volume is indexed. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Not recommended

```
Boolean FBCVolumeIsIndexed (
    SInt16 theVRefNum
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

FBCVolumelsRemote

Determines whether a volume is remote. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

Deprecated Find By Content Reference (Not Recommended) Functions

Not recommended

```
Boolean FBCVolumeIsRemote (
    SInt16 theVRefNum
);
```

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Carbon Porting Notes

This function does nothing in Mac OS X.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

InvokeFBCCallbackUPP

Invokes a universal procedure pointer (UPP) to a search cancellation callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
Boolean InvokeFBCCallbackUPP (
    UInt16 phase,
    float percentDone,
    void * data,
    FBCCallbackUPP userUPP
);
```

Discussion

You should not need to call this function as Find by Content invokes your callback for you.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

InvokeFBCHitTestUPP

Invokes a universal procedure pointer (UPP) to a search-hit testing callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
Boolean InvokeFBCHitTestUPP (
    const FSRef * theFile,
    void * data,
    FBCHitTestUPP userUPP
);
```

Discussion

You should not need to call this function as Find by Content invokes your callback for you.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

NewFBCCallbackUPP

Creates a new universal procedure pointer (UPP) to a search cancellation callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
FBCCallbackUPP NewFBCCallbackUPP (
    FBCCallbackProcPtr userRoutine
);
```

Parameters

userRoutine

A pointer to your progress callback.

Return Value

See the description of the `FBCCallbackUPP` data type.

Discussion

See the callback `FBCCallbackProcPtr` (page 9) for more information.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.0 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Deprecated Find By Content Reference (Not Recommended) Functions

Declared In

FindByContent.h

NewFBCHitTestUPP

Creates a new universal procedure pointer (UPP) to a search-hit testing callback. (Deprecated in Mac OS X v10.4. Use Search Kit instead; see *Search Kit Programming Guide*.)

```
FBCHitTestUPP NewFBCHitTestUPP (  
    FBCHitTestProcPtr userRoutine  
);
```

Parameters*userRoutine*

A pointer to your search-hit-testing callback.

Return Value

See the description of the `FBCHitTestUPP` data type.

Discussion

See the callback [FBCHitTestProcPtr](#) (page 10) for more information.

Special Considerations

Because the Search Kit takes a different approach to finding and displaying information from that used by the Find by Content API, you cannot make a one-to-one substitution of Search Kit functions for Find by Content functions. However, the basic features of the Search Kit can be implemented very quickly, and Search Kit offers much greater capability than the Find by Content API.

Availability

Available in Mac OS X v10.2 through Mac OS X v10.4.

Deprecated in Mac OS X v10.4.

Declared In

FindByContent.h

Document Revision History

This table describes the changes to *Find By Content Reference*.

Date	Notes
2006-07-13	Updated for Mac OS X v10.5.
2006-07-24	Deprecated the API. Replaced by the Search Kit.
2003-05-01	Added documentation.
2003-01-01	Formatting and linking changes.
	Removed functions, data types, and constants contained in <code>IAExtractor.h</code> , which is not supported in Mac OS X.

REVISION HISTORY

Document Revision History

Index

D

Deprecated Language Constants 15

DisposeFBCCallbackUPP function (Deprecated in Mac OS X v10.4) 19

DisposeFBCHITestUPP function (Deprecated in Mac OS X v10.4) 19

E

errIAnoErr constant 16

F

FBCAddAllVolumesToSession function (Deprecated in Mac OS X v10.4) 20

FBCAddVolumeToSession function (Deprecated in Mac OS X v10.4) 21

FBCBindExampleSearch function (Deprecated in Mac OS X v10.4) 21

FBCBindExampleSearchWithCallback function (Deprecated in Mac OS X v10.4) 22

FBCCallbackProcPtr callback 9

FBCCallbackUPP data type 10

FBCCloneSearchSession function (Deprecated in Mac OS X v10.4) 23

FBCCreateSearchSession function (Deprecated in Mac OS X v10.4) 24

FBCDeleteIndexFileForFolder function (Deprecated in Mac OS X v10.4) 25

FBCDestroySearchSession function (Deprecated in Mac OS X v10.4) 25

FBCDestroyWordList function (Deprecated in Mac OS X v10.4) 26

FBCDisposeSummary function (Deprecated in Mac OS X v10.4) 27

FBCDoCFStringSearch function (Deprecated in Mac OS X v10.4) 27

FBCDoExampleSearch function (Deprecated in Mac OS X v10.4) 28

FBCDoQuerySearch function (Deprecated in Mac OS X v10.4) 30

FBCFindIndexFileFolderForFolder function (Deprecated in Mac OS X v10.4) 30

FBCGetHitCount function (Deprecated in Mac OS X v10.4) 31

FBCGetHitDocument function (Deprecated in Mac OS X v10.4) 32

FBCGetHitDocumentRef function (Deprecated in Mac OS X v10.4) 33

FBCGetHitScore function (Deprecated in Mac OS X v10.4) 33

FBCGetMatchedWords function (Deprecated in Mac OS X v10.4) 34

FBCGetSessionVolumeCount function (Deprecated in Mac OS X v10.4) 35

FBCGetSessionVolumes function (Deprecated in Mac OS X v10.4) 35

FBCGetSummaryOfCFString function (Deprecated in Mac OS X v10.4) 36

FBCGetSummarySentenceCount function (Deprecated in Mac OS X v10.4) 36

FBCGetSummarySentences function (Deprecated in Mac OS X v10.4) 37

FBCGetTopicWords function (Deprecated in Mac OS X v10.4) 38

FBCHITestProcPtr callback 10

FBCHITestUPP data type 11

FBCIndexItems function (Deprecated in Mac OS X v10.4) 39

FBCIndexItemsInLanguages function (Deprecated in Mac OS X v10.4) 39

FBCReleaseSessionHits function (Deprecated in Mac OS X v10.4) 40

FBCRemoveVolumeFromSession function (Deprecated in Mac OS X v10.4) 41

FBCSearchSession data type 11

FBCSetCallback function (Deprecated in Mac OS X v10.4) 41

[FBCSetHeapReservation function \(Deprecated in Mac OS X v10.4\)](#) 42
[FBCSetSessionCallback function \(Deprecated in Mac OS X v10.4\)](#) 42
[FBCSetSessionHitTest function \(Deprecated in Mac OS X v10.4\)](#) 43
[FBCSetSessionVolumes function \(Deprecated in Mac OS X v10.4\)](#) 44
[FBCSummarize function \(Deprecated in Mac OS X v10.4\)](#) 44
[FBCSummarizeCFString function \(Deprecated in Mac OS X v10.4\)](#) 45
[FBCSummaryRef data type](#) 11
[FBCVolumeIndexPhysicalSize function \(Deprecated in Mac OS X v10.4\)](#) 46
[FBCVolumeIndexTimeStamp function \(Deprecated in Mac OS X v10.4\)](#) 46
[FBCVolumeIsIndexed function \(Deprecated in Mac OS X v10.4\)](#) 47
[FBCVolumeIsRemote function \(Deprecated in Mac OS X v10.4\)](#) 47
[FBCWidgetItem data type](#) 12
[FBCWordList data type](#) 12

I

[InvokeFBCCallbackUPP function \(Deprecated in Mac OS X v10.4\)](#) 48
[InvokeFBCHitTestUPP function \(Deprecated in Mac OS X v10.4\)](#) 49

K

[kFBCAccessCanceled constant](#) 17
[kFBCCaccessorStoreFailed constant](#) 17
[kFBCCaddDocFailed constant](#) 17
[kFBCCallocFailed constant](#) 16
[kFBCCanalysisNotAvailable constant](#) 18
[kFBCCbadIndexFile constant](#) 17
[kFBCCbadIndexFileVersion constant](#) 18
[kFBCCbadParam constant](#) 16
[kFBCCbadSearchSession constant](#) 18
[kFBCCcommitFailed constant](#) 17
[kFBCCcompactionFailed constant](#) 17
[kFBCCdeletionFailed constant](#) 17
[kFBCCfileNotIndexed constant](#) 16
[kFBCCflushFailed constant](#) 17
[kFBCCillegalSessionChange constant](#) 18
[kFBCCindexCreationFailed constant](#) 17
[kFBCCindexDiskIOFailed constant](#) 18

[kFBCCindexFileDestroyed constant](#) 18
[kFBCCindexingCanceled constant](#) 17
[kFBCCindexingFailed constant](#) 17
[kFBCCindexNotAvailable constant](#) 18
[kFBCCindexNotFound constant](#) 17
[kFBCCmergingFailed constant](#) 17
[kFBCCmoveFailed constant](#) 17
[kFBCCnoIndexesFound constant](#) 16
[kFBCCnoSearchSession constant](#) 17
[kFBCCnoSuchHit constant](#) 18
[kFBCCnotAllFoldersSearchable constant](#) 18
[kFBCCphAccessWaiting constant](#) 15
[kFBCCphCanceling constant](#) 15
[kFBCCphCompacting constant](#) 14
[kFBCCphFlushing constant](#) 14
[kFBCCphIdle constant](#) 15
[kFBCCphIndexing constant](#) 14
[kFBCCphIndexWaiting constant](#) 14
[kFBCCphMakingAccessAccessor constant](#) 15
[kFBCCphMakingIndexAccessor constant](#) 14
[kFBCCphMerging constant](#) 14
[kFBCCphSearching constant](#) 14
[kFBCCphSummarizing constant](#) 15
[kFBCCsearchFailed constant](#) 18
[kFBCCsomeFilesNotIndexed constant](#) 18
[kFBCCsummarizationCanceled constant](#) 18
[kFBCCsummarizationFailed constant](#) 18
[kFBCCtokenizationFailed constant](#) 17
[kFBCCvalidationFailed constant](#) 17
[kFBCCvTwinExceptionErr constant](#) 16

L

[Language Constants](#) 12

N

[NewFBCCallbackUPP function \(Deprecated in Mac OS X v10.4\)](#) 49
[NewFBCHitTestUPP function \(Deprecated in Mac OS X v10.4\)](#) 50

P

[Phase Values](#) 13